

ABSTRACT OF THE DISCLOSURE

An execution control apparatus of a data driven information processor includes: an instruction decoder that outputs the number of inputs of an instruction; a waiting data storage region that stores N ($N \geq 2$) waiting data and respective data valid flags in one address; a constant storage that stores constants and a constant valid flag; a constant readout unit that reads out a constant and a constant valid flag from the constant storage with the node number of the packet as the address; a unit that calculates the address and selects a process for data waiting depending upon a combination of a data valid flag, a constant valid flag, and the number of instruction inputs; and a unit that performs the waiting process in response to the select signal.